| Form PTO-1449 (Modified)   | Application No.      | 09/864,093   |
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| INFORMATION DISCLOSURE     | Filing Date          | 05/21/2001   |
| CITATION IN AN APPLICATION | First Named Inventor | Clark et al. |
|                            | Group Art Unit       | 2638-2638    |
|                            | Examiner Name        |              |
| Sheet 1 of 8               | Attorney Docket No.  | 70651        |

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| HP                    | AA       |                                    | 09/823,175 (with<br>Preliminary<br>Amendment filed<br>7/25/01) |                               | Willebrand           |                                       | 1         |       | 03/29/2001  |
| HS                    | AB       |                                    | 09/849,613   |                               | Willebrand<br>et al. |                                       | -         |       | 05/04/2001  |
| HP                    | AC       |                                    | 09/482,782   | ,                             | Willebrand<br>et al. |                                       |           |       | 01/13/2000  |
| HP                    | AD       |                                    | 6,239,888  | BI                            | Willebrand           | 05/29/2001                            | -         | )     | 04/24/1998  |
| Hl                    | AE       |                                    | 6,219,363  | B1                            | Fix et al.           | 04/17/2001                            | -         |       | 04/29/1999  |
| MP                    | AF       |                                    | 6,122,084  |                               | Britz et al.         | 09/19/2000                            | -         | 1     | 03/03/1998  |
| MP                    | AG       |                                    | 6,049,593  |                               | Асатрога             | 04/11/2000                            | 4         | •     | 12/19/1997  |
| MP                    | AH       |                                    | 6,014,236  |                               | Flaherty             | 01/11/2000                            | -         | _     | 02/04/1997  |
| MP                    | AI       |                                    | 5,995,253  |                               | Flaherty             | 11/30/1999                            |           |       | 02/04/1997  |
| MP                    | ΑJ       |                                    | 5,983,068  |                               | Tomich et al.        | 11/9/1999                             |           | -     | 02/29/1996  |
| H                     | AK       |                                    | 5,978,118  |                               | Flaherty             | 11/02/1999                            | [ +       | -     | 02/04/1997  |
| HP                    | AL       |                                    | 5,966,229  |                               | Dodley et al.        | 10/12/1999                            |           | _     | 06/18/1997  |
| H.                    | AM       |                                    | 5,946,120  |                               | Chen                 | 08/31/1999                            | $\Box$    | -[    | 05/30/1997  |
| HP                    | лл       |                                    | 5,917,629  |                               | Hortensius<br>et al. | 06/29/1999                            | +         | _     | 10/29/1990  |
| Hl                    | AO       |                                    | 5,859,725  |                               | Sugiya et al.        | 01/12/1999                            | -         | _     | 01/12/1999  |
| HP                    | AP       |                                    | 5,844,705  |                               | Rutledge             | 12/01/1998                            | 4         | 寸     | 02/13/1997  |
| HP                    | AQ       |                                    | 5,838,470  |                               | Radchaus . et al.    | 11/17/1998                            | 7         | -     | 06/04/1997  |
| MP                    | AR       |                                    | 5,818,619  |                               | Medved et al.        | 10/06/1998                            | $\exists$ | _     | 06/13/1996  |

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| HP                   | AS        |                                    | 5,786,923                    |                            | Doucet et al.                       | 07/28/1998                            | -      | 1      | 03/29/1996  |  |
| MP                   | AT        |                                    | 5,778,116                    |                            | Tomich                              | 07/07/1998                            | -      | -      | 01/23/1997  |  |
| Hſ                   | AU        |                                    | 5,777,768                    |                            | Korevaar                            | 07/07/1998                            | (      | 1      | 08/29/1996  |  |
| HP                   | ΑV        |                                    | 5,764,677                    |                            | Scheps                              | 06/09/1998                            | -      | -      | 12/14/1995  |  |
| HP                   | AW        |                                    | 5,748,813                    |                            | Cassidy et al.                      | 05/05/1998                            | -      |        | 07/28/1993  |  |
| HP                   | AX        |                                    | 5,661,582                    |                            | Kintis et al.                       | 08/26/1997                            |        | -      | 10/26/1995  |  |
| HP                   | AY        |                                    | 5,659,413                    |                            | Carlson                             | 08/19/1997                            |        | 1      | 02/28/1995  |  |
| HP                   | AZ        |                                    | 5,654,816                    |                            | Fishman                             | 08/05/1997                            | H      |        | 06/06/1996  |  |
| HP                   | BA        |                                    | 5,606,444                    |                            | Johnson et al.                      | 02/25/1997                            |        | _      | 10/20/1994  |  |
| HP                   | вв        |                                    | 5,596,661                    |                            | Henry et al.                        | 01/21/1997                            |        | -      | 12/28/1994  |  |
| HI                   | вс        |                                    | 5,588,015                    |                            | Yang                                | 12/24/1996                            | 7      | -      | 08/22/1995  |  |
| HP                   | BD        | -                                  | 5,587,830                    |                            | Chraphyvy<br>et al.                 | 12/24/1996                            | 7      | -      | 05/28/1993  |  |
| HP                   | BE        |                                    | 5,574,589                    |                            | Peucr et al.                        | 11/12/1996                            | $\Box$ | _      | 01/09/1995  |  |
| HI                   | BF        |                                    | 5,526,161                    |                            | Suzuki et al.                       | 06/11/1996                            | 7      | -      | 06/20/1994  |  |
| Н                    | BG        |                                    | 5,475,520                    |                            | Wissinger                           | 12/12/1995                            | 7      | _      | 06/22/1994  |  |
| H                    | вн        |                                    | 5,465,170                    |                            | Arimoto                             | 11/07/1995                            |        | _      | 01/19/1994  |  |
| HI                   | BI        |                                    | 5,457,562                    |                            | Tremblay                            | 10/10/1995                            | 7      | -      | 05/20/1994  |  |
| Hl                   | BJ        |                                    | 5,452,124                    |                            | Baker                               | 09/19/1995                            | 7      | -      | 03/04/1994  |  |
| HP                   | BK        |                                    | 5,448,391                    |                            | Iriyama et al.                      | 09/05/1995                            | _      | -1     | 06/29/1993  |  |
| Hl                   | BL        |                                    | 5,443,227                    |                            | Hsu .                               | 08/22/1995                            | 7      | -      | 10/15/1993  |  |
| HP                   | ВМ        |                                    | 5,416,864                    |                            | Cassidy et al.                      | 05/16/1995                            | 7      | $\neg$ | 11/20/1991  |  |

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|                            | Examiner Name        |              |
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| 148                   | BN     |                                    | 5,416,627                    |                            | Wilmoth                             | 05/16/1995                            | -                 | _     | 04/24/1992  |
| HP                    | во     |                                    | 5,410,147                    |                            | Riza et al.                         | 04/25/1995                            | 7=                | _     | 08/20/1992  |
| MP                    | BP     |                                    | 5,400,166                    |                            | Huber                               | 03/21/1995                            | $\lceil - \rceil$ | _     | 10/20/1992  |
| HP                    | BQ     |                                    | 5,394,489                    |                            | Koch                                | 02/28/1995                            | 1-                |       | 07/27/1993  |
| HS                    | BR     |                                    | 5,390,040                    |                            | Мвусих                              | 02/14/1995                            | 1                 |       | 02/04/1994  |
| HP                    | BS     |                                    | 5,384,652                    |                            | Alica et al.                        | 1/24/1995                             | 1-                | -     | 01/06/1993  |
| HI                    | BT     |                                    | 5,371,734                    |                            | Fischer                             | 12/06/1994                            | 1-                | -     | 01/29/1993  |
| HP                    | BU     |                                    | 5,359,446                    |                            | Johnson et al.                      | 10/25/1994                            | -                 | _     | 09/10/1992  |
| HI_                   | BV     |                                    | 5,353,294                    |                            | Shigeno                             | 10/04/1994                            | 17                | )     | 09/30/1992  |
| M                     | вw     |                                    | 5,331,449                    |                            | Huber et al.                        | 07/19/199<br>4                        | -                 |       | 03/15/1993  |
| HP                    | BX     |                                    | 5,311,535                    |                            | Karpinski                           | 05/10/1994                            |                   | _     | 07/28/1992  |
| HP                    | BY     |                                    | 5,301,054                    |                            | Huber et al.                        | 04/05/1994                            | 1                 | -     | 01/14/1993  |
| Hl                    | BZ     |                                    | 5,267,010                    |                            | Kremer et al.                       | 11/30/1993                            | 1                 |       | 05/31/1991  |
| HP                    | CA     |                                    | 5,247,381                    |                            | Olmstead<br>et al.                  | 09/21/1993                            | +                 | -     | 05/20/1992  |
| Hl                    | СВ     |                                    | 5,223,781                    |                            | Criswell et al.                     | 06/29/1993                            | 4                 | _     | 03/08/1990  |
| HP                    | сс     |                                    | 5,221,983                    |                            | Wagner                              | 06/22/1993                            | +                 | - ]   | 01/19/1989  |
| HP                    | Ө      |                                    | 5,218,467                    |                            | Ross et al.                         | 06/08/1993                            | -                 | -     | 12/28/1990  |
| H                     | CE     |                                    | 5,218,356                    |                            | Кпарр                               | 06/08/1993                            | -                 |       | 05/31/1991  |
| Hl                    | CF     |                                    | 5,210,631                    |                            | Huber et al.                        | 05/11/1993                            | +                 |       | 12/22/1989  |
| HP                    | CG     |                                    | 5,200,631                    |                            | Austin et al.                       | 04/06/1993                            | +                 | _[    | 08/06/1991  |

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| 140                   |          | <del> </del>                                    |   | (taowa) |                                     |   |        |           |             |
| HP                    | CH       | ļ   | 5,185,814   | ļ       | Healey                              | 02/9/1993   |        | (         | 07/13/1990  |
| HL                    | CI       |   | 5,185,758   |         | Fan et al.                          | 02/09/1993  |        |           | 01/07/1992  |
| HI                    | CJ       |   | 5,142,400   |         | Solinsky                            | 08/25/1992  |        | _         | 05/28/1991  |
| HP                    | СК       |   | 5,083,874   |         | Aida et al.                         | 01/28/1992  |        | ·         | 04/10/1990  |
| HP                    | CT       | _   | 5,068,916   |         | Harrison<br>et al.                  | 11/26/1991  | -      | _         | 10/29/1990  |
| HP                    | СМ       |   | 5,060,303   |         | Wilmoth                             | 10/22/1991  |        | _         | 09/06/1988  |
| Hl                    | CN       |   | 5,019,768   | ·       | Criswell et al.                     | 05/28/1991  | 7      | -         | 02/11/1988  |
| HP                    | 8        |   | 5,005,937   |         | Aida et al.                         | 04/09/1991  |        |           | 04/10/1990  |
| HP                    | CP       |   | 4,975,926   |         | Кларр                               | 12/04/1990  |        | _         | 03/30/1989  |
| HP                    | CQ       |   | 4,932,775   |         | Wissman<br>et al.                   | 06/12/1990  | $\Box$ | -         | 11/21/1988  |
| Hl                    | CR       | •   | 4,922,502   |         | Unternahrer et al.                  | 05/01/1990  | 1      | -         | 06/29/1988  |
| HP                    | cs       |   | 4,826,269   |         | Streifer et al.                     | 05/02/1989  | 1      |           | 10/16/1987  |
| Hl                    | СТ       |   | 4,823,357   | _       | Casey                               | 04/18/1989  | I      | $\Box$    | 11/10/1986  |
| HP                    | CU       |   | 4,794,345   |         | Linford et al.                      | 12/27/1988  | I      |           | 02/26/1986  |
| HP                    | cv       |   | 4,773,063   |         | Hunsperger et                       | 09/20/1988  | +      | -         | 11/13/1984  |
| HP                    | cw       |   | 4,761,059   |         | Yeh et al.                          | 08/02/1988  | 7      | _         | 07/28/1986  |
| $\mathcal{H}$         | сх       |   | 4,757,268   |         | Abrams et al.                       | 07/12/1988  | 7      |           | 05/22/1985  |
| HP                    | CY       |   | 4,717,913   |         | Elger                               | 01/05/1988  | 7      | _         | 08/29/1985  |
| HP                    | cz       | ·   | 4,689,482   |         | Horikawa<br>et al.                  | 08/25/1987  |        |           | 06/13/1985  |

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| HP                    | DA      |                                     | 4,639,586                    |                            | Fender et al.                       | 01/27/1987                            | -     |       | 02/06/1985  |  |
| HP                    | DB      |                                     | 4,630,254                    |                            | Tscng                               | 12/16/1986                            | 1     | _     | 10/26/1984  |  |
| HP                    | DC      |                                     | 4,428,647                    |                            | Sprague et al.                      | 01/31/1984                            | 1     | 1     | 11/04/1982  |  |
| HP                    | DD      | •                                   | 4,060,769                    |                            | Mallozzi<br>et al.                  | 11/29/1977                            | _     |       | 09/20/1974  |  |
| MP                    | DE      |                                     | 3,967,899                    |                            | O'Meara                             | 07/06/1976                            | -     | -     | 12/30/1974  |  |
| H                     | DF      |                                     | 3,488,586                    |                            | Watrous et al.                      | 01/06/1970                            | 7     | -     | 06/02/1965  |  |

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| HP                    | DΙ |      | G. NYKOLAK et al.; "A 40 Gb/s DWDM Free Space Optical Transmission Link<br>Over 4.4 km"; Free Space Laser Communication Technologies XII; Proceedings of<br>SPIE; Vol. 3932, pp. 16-20; (2000). |  |  |  |  |  |

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| HP                   | DJ          |   | P. F. SZAJOWSKI et al.; "Key Blements of High-Speed WDM Terrestrial Free-Space Optical Communications Systems"; Free-Space Laser Communication Technologies XII; Proceedings of SPIE; Vol. 3932, pp. 2-14; (2000).  |
| HP                   | DK          |   | R. PAIELLA et al.; "Generation and Detection of High-Speed Pulses of Mid-Infrared Radiation with Intersubband Semiconductor Lasers and Detectors"; <i>IEEE Transactions on Photonics Technology Letters</i> ; Vol. 12, No. 7; pp. 780-782; (July 2000).               |
| HP                   | DL          |   | F. G. OMENETTO et al.; "Shaping, Propagation and Characterization of Ultrafast Pulses in Optical Fibers"; Applied Physics B, Lasers and Optics; pp. 1-6; (2000).  |
| HP                   | DM          |   | G. NYKOLAK et al.; "Update on 4x2.5 Gb/s, 4.4km Free-Space Optical Communications Link: Availability and Scintillation Performance"; Part of the SPIE Conference on Optical Wireless Communications II; SPIE; Vol. 3850; pp. 11-19 (September 1999).                  |
| HI                   | DN          |   | S. SCHILLER et al.; "Theory of an Optical Parametric Oscillator with Resonant Pump and Signal"; J. Optical Society of America: Vol. 16, No. 9; pp. 1512-1524; (September 1999).   |
| HP                   | DO          |   | P. F. SZAJOWSKI et al.; "High Power Optical Amplifiers Enable 1550 mm Terrestrial Free-Space Optical Data-Links Operating @ WDM 2.5 Gb/s Data Rates"; Part of the SPIE Conference on Optical Wireless Communications II; SPIE; Vol. 3850; pp. 2-10; (September 1999). |
| HP                   | DP          |   | Y. YASHKIR et al.; "Passively Q-Switched 1.5 - µm Intracavity Optical Parametic Oscillator"; Applied Optics. Vol. 38, No. 12; pp. 2554-2559; (April 1999).  |
| HI                   | DQ          |   | GUILFOYLE et al.; "Free-Space Interconnects for High-Performance Optoelectronic Switching"; Computer; IEEE; pp. 69-75; (February 1998).   |
| MP                   | DR          |   | KIM et al.; "Scintillation Reduction Using Multiple Transmitters"; Society of Photo-<br>Optical Instrumentation Engineers, Vol. 2990; pp. 102-113; (1997).  |
| HI                   | DS          |   | BELMONTE et al.; "Performance of a Multiple-Aperture Optical System"; Society of Photo-Optical Instrumentation Engineers, Vol. 2699; pp. 316-326; (1996).   |
| HI                   | DT          | ı   | K. E. WILSON et al.; "Preliminary Results of the Ground/Orbiter Lasercomm<br>Demonstration Experiment between Table Mountain and the ETS-VI Satellite",<br>Society of Photo-Optical Instrumentation Engineers, Vol. 2699; pp. 121-132 (1996).                         |

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|                      | <del>"</del> | OTH   | RR DOCUMENTS – NON PATENT LITERATURE DOCUMENTS  |
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| HP                   | DU           |   | A. LOURI et al.; "Feasibility Study for a Scalable Optical Interconnection Network for Massively Parallel Processing Systems"; Applied Optics. Vol. 35, No. 8; pp. 1296-1308 (March 10, 1996).  |
| HP                   | DV           |   | J. SCHUSTER et al.; "Optomechanical Design of STRV-2 Lasercom Transceiver Using Novel Azimuth/Slant Gimbal"; Society of Photo-Optical Instrumentation Engineers, Vol. 2699; pp. 227-239 (January 30-31, 1996).  |
| Нβ                   | DW           |   | E. KOREVAAR et al.; "Design of Satellite Terminal for BMDO Lasercom Technology Demonstration"; Society of Photo-Optical Instrumentation Engineers, Vol. 2381; pp. 60-71 (February 7-8, 1995).   |
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| CITATION IN AN APPLICATION | First Named Inventor | Clark et al. |
|                            | Group Art Unit       | 2635 2638    |
|                            | Examiner Name        |              |
| Sheet 8 of 8               | Attorney Docket No.  | 70651        |

| Examiner   | <u> </u> |       | In.                |          |  |  |  |  |  |
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| Signature  | Wart     | lyhan | Date<br>Considered | 09/01/05 |  |  |  |  |  |
| *BXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP \$609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant. |          |       |                    |          |  |  |  |  |  |

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| ·                         | Group Art Unit       | 2633 2637    |
| AL 2.1 2005               | Examiner Name        | Hanh Phan    |
| RADEN Sheet 1 of 6        | Attorney Docket No.  | 70651/7293   |

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| HP                    | AD                    | x                                    | 4916460                      |                            | Powell          | 04-10-1990                            | <u></u> |           |                             |  |  |
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| ·                          | Group Art Unit       | 2633- 2638   |
|                            | Examiner Name        | Hanh Phan    |
| Sheet 2 of 6               | Attorney Docket No.  | 70651/7293   |

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|                            | Group Art Unit       | 2633 2638    |
|                            | Examiner Name        | Hanh Phan    |
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|                            | Examiner Name        | Hanh Phan    |
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|                            | Examiner Name        | Hanh Phan    |  |
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